

Mikael Simons

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/157422/publications.pdf>

Version: 2024-02-01

52
papers

7,481
citations

109137

35
h-index

189595

50
g-index

58
all docs

58
docs citations

58
times ranked

13539
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuropilin-1 facilitates SARS-CoV-2 cell entry and infectivity. <i>Science</i> , 2020, 370, 856-860.	6.0	1,441
2	Cell type- and brain region-resolved mouse brain proteome. <i>Nature Neuroscience</i> , 2015, 18, 1819-1831.	7.1	672
3	Oligodendrocytes: Myelination and Axonal Support. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a020479.	2.3	515
4	Phase Separation of FUS Is Suppressed by Its Nuclear Import Receptor and Arginine Methylation. <i>Cell</i> , 2018, 173, 706-719.e13.	13.5	484
5	Age-related myelin degradation burdens the clearance function of microglia during aging. <i>Nature Neuroscience</i> , 2016, 19, 995-998.	7.1	399
6	Defective cholesterol clearance limits remyelination in the aged central nervous system. <i>Science</i> , 2018, 359, 684-688.	6.0	349
7	Myelin in the Central Nervous System: Structure, Function, and Pathology. <i>Physiological Reviews</i> , 2019, 99, 1381-1431.	13.1	336
8	Myelin Membrane Wrapping of CNS Axons by PI(3,4,5)P3-Dependent Polarized Growth at the Inner Tongue. <i>Cell</i> , 2014, 156, 277-290.	13.5	326
9	White matter aging drives microglial diversity. <i>Neuron</i> , 2021, 109, 1100-1117.e10.	3.8	208
10	Metabolism and functions of lipids in myelin. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 999-1005.	1.2	191
11	Actin Filament Turnover Drives Leading Edge Growth during Myelin Sheath Formation in the Central Nervous System. <i>Developmental Cell</i> , 2015, 34, 139-151.	3.1	183
12	Enhancing protective microglial activities with a dual function <sc>TREM</sc> 2 antibody to the stalk region. <i>EMBO Molecular Medicine</i> , 2020, 12, e11227.	3.3	155
13	Cell-Type- and Brain-Region-Resolved Mouse Brain Lipidome. <i>Cell Reports</i> , 2020, 32, 108132.	2.9	147
14	Antagonistic Functions of MBP and CNP Establish Cytosolic Channels in CNS Myelin. <i>Cell Reports</i> , 2017, 18, 314-323.	2.9	145
15	BCAS1 expression defines a population of early myelinating oligodendrocytes in multiple sclerosis lesions. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	138
16	Microglia facilitate repair of demyelinated lesions via post-squalene sterol synthesis. <i>Nature Neuroscience</i> , 2021, 24, 47-60.	7.1	134
17	Mononuclear phagocytes locally specify and adapt their phenotype in a multiple sclerosis model. <i>Nature Neuroscience</i> , 2018, 21, 1196-1208.	7.1	132
18	Myelination at a glance. <i>Journal of Cell Science</i> , 2014, 127, 2999-3004.	1.2	129

#	ARTICLE	IF	CITATIONS
19	A Paired RNAi and RabGAP Overexpression Screen Identifies Rab11 as a Regulator of β 2-Amyloid Production. <i>Cell Reports</i> , 2013, 5, 1536-1551.	2.9	120
20	Oligodendrocytes Provide Antioxidant Defense Function for Neurons by Secreting Ferritin Heavy Chain. <i>Cell Metabolism</i> , 2020, 32, 259-272.e10.	7.2	98
21	Loss of Myelin Basic Protein Function Triggers Myelin Breakdown in Models of Demyelinating Diseases. <i>Cell Reports</i> , 2016, 16, 314-322.	2.9	93
22	The leukodystrophy protein FAM126A (hyccin) regulates PtdIns(4)P synthesis at the plasma membrane. <i>Nature Cell Biology</i> , 2016, 18, 132-138.	4.6	91
23	Pro-inflammatory activation following demyelination is required for myelin clearance and oligodendrogenesis. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	87
24	A unified cell biological perspective on axon-myelin injury. <i>Journal of Cell Biology</i> , 2014, 206, 335-345.	2.3	73
25	The logistics of myelin biogenesis in the central nervous system. <i>Glia</i> , 2017, 65, 1021-1031.	2.5	69
26	TREM2-dependent lipid droplet biogenesis in phagocytes is required for remyelination. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	68
27	Expression of the DNA-Binding Factor TOX Promotes the Encephalitogenic Potential of Microbe-Induced Autoreactive CD8+ T Cells. <i>Immunity</i> , 2018, 48, 937-950.e8.	6.6	60
28	Loss of NPC1 enhances phagocytic uptake and impairs lipid trafficking in microglia. <i>Nature Communications</i> , 2021, 12, 1158.	5.8	58
29	Diversity of oligodendrocytes and their progenitors. <i>Current Opinion in Neurobiology</i> , 2017, 47, 73-79.	2.0	55
30	The emerging functions of oligodendrocytes in regulating neuronal network behaviour. <i>BioEssays</i> , 2015, 37, 60-69.	1.2	54
31	Grey matter myelination. <i>Glia</i> , 2019, 67, 2063-2070.	2.5	54
32	Oligodendrocytes as A New Therapeutic Target in Schizophrenia: From Histopathological Findings to Neuron-Oligodendrocyte Interaction. <i>Cells</i> , 2019, 8, 1496.	1.8	49
33	Two adhesive systems cooperatively regulate axon ensheathment and myelin growth in the CNS. <i>Nature Communications</i> , 2019, 10, 4794.	5.8	45
34	A Global In Vivo <i>Drosophila</i> RNAi Screen Identifies a Key Role of Ceramide Phosphoethanolamine for Glial Ensheathment of Axons. <i>PLoS Genetics</i> , 2013, 9, e1003980.	1.5	44
35	Atomic resolution view into the structure-function relationships of the human myelin peripheral membrane protein P2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 165-176.	2.5	41
36	Diet-dependent regulation of $TGF\beta$ 2 impairs reparative innate immune responses after demyelination. <i>Nature Metabolism</i> , 2021, 3, 211-227.	5.1	41

#	ARTICLE	IF	CITATIONS
37	Reorganization of Lipid Diffusion by Myelin Basic Protein as Revealed by STED Nanoscopy. <i>Biophysical Journal</i> , 2016, 110, 2441-2450.	0.2	23
38	Prox1 Is Required for Oligodendrocyte Cell Identity in Adult Neural Stem Cells of the Subventricular Zone. <i>Stem Cells</i> , 2016, 34, 2115-2129.	1.4	21
39	<i>In vivo</i> identification of apoptotic and extracellular vesicle-bound live cells using image-based deep learning. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1792683.	5.5	18
40	Dynamics of the Peripheral Membrane Protein P2 from Human Myelin Measured by Neutron Scattering—A Comparison between Wild-Type Protein and a Hinge Mutant. <i>PLoS ONE</i> , 2015, 10, e0128954.	1.1	17
41	Myelinophagy: Schwann cells dine in. <i>Journal of Cell Biology</i> , 2015, 210, 9-10.	2.3	14
42	Polygenic burden associated to oligodendrocyte precursor cells and radial glia influences the hippocampal volume changes induced by aerobic exercise in schizophrenia patients. <i>Translational Psychiatry</i> , 2019, 9, 284.	2.4	14
43	Dissociation of microdissected mouse brain tissue for artifact free single-cell RNA sequencing. <i>STAR Protocols</i> , 2021, 2, 100590.	0.5	14
44	Multiscale ATUM-FIB Microscopy Enables Targeted Ultrastructural Analysis at Isotropic Resolution. <i>IScience</i> , 2020, 23, 101290.	1.9	13
45	Plasma lipidomics of monozygotic twins discordant for multiple sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 2461-2466.	1.7	11
46	Proteomic and lipidomic profiling of demyelinating lesions identifies fatty acids as modulators in lesion recovery. <i>Cell Reports</i> , 2021, 37, 109898.	2.9	11
47	Catching filopodia: Exosomes surf on fast highways to enter cells. <i>Journal of Cell Biology</i> , 2016, 213, 143-145.	2.3	9
48	Disease Modification in Multiple Sclerosis by Flupirtine—Results of a Randomized Placebo Controlled Phase II Trial. <i>Frontiers in Neurology</i> , 2018, 9, 842.	1.1	6
49	Reparative inflammation in multiple sclerosis. <i>Seminars in Immunology</i> , 2022, 59, 101630.	2.7	2
50	A fluorescence microscopy-based protocol for volumetric measurement of lysolecithin lesion-associated de- and re-myelination in mouse brain. <i>STAR Protocols</i> , 2022, 3, 101141.	0.5	1
51	Editorial overview: Cellular neuroscience. <i>Current Opinion in Neurobiology</i> , 2016, 39, v-vii.	2.0	0
52	Associations between sex, body mass index, and the individual microglial response in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	0